

**COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)
EVIDENCE AUDIT CHECKLIST
U.S. Environmental Protection Agency - Region 8
Environmental Services Division, Multi-Media Branch
Analytical Operations Section**

Audit Number: 08-15-08 Site Name: Richardson Flats Trail
 Date CSF Received: 12/3/07 Site Manager: Kathryn Hernandez
 Received By: Carol Beane RAS Number: 36948
 Date of Audit: 12/11/07 ULSA Number: _____
 Audited By: Carol Beane SDG Number: MH23K0
 Resubmitted CSF? Yes _____ No _____ Number of Samples: 20/4/5
 Lab Name: A-4 Scientific, Inc. CLP Lab Code: A-4
 Lab Location: The Woodlands, TX

AUDIT CHECKLIST

CHAIN OF CUSTODY

- | | |
|---|---|
| 1. Custody Seal Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 2. Condition of Seal? Intact <input checked="" type="checkbox"/> Signed <input checked="" type="checkbox"/> Broken _____ Unsigned _____ | |
| 3. Chain of Custody Record(s) Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 4. Chain of Custody Record(s) Signed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 5. Chain of Custody Record(s) Dated? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 6. Traffic Report(s) or Packing List(s) Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 7. Traffic Report(s) or Packing List(s) Signed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 8. Airbill Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 9. Airbill Number(s): <u>863198575033</u> | |
| 10. Airbill Signed? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 11. Airbill Dated? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 12. Sample Tags Present? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 13. Should Sample Tags be Present? | Yes <input type="checkbox"/> No <input type="checkbox"/> |

AUDIT NUMBER: 08-15-08

FORM DC-2

14. Form DC-2 Present?
15. Numbering Scheme on Form DC-2 Correct?
16. Enclosed Documents Listed?
17. Listed Documents Enclosed?

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐

FORM DC-1

18. Form DC-1 Present?
19. Form DC-1 Complete?
20. Form DC-1 Correct?

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐

DOCUMENT CONTROL

21. Laboratory Documents Complete?
22. Laboratory Documents Legible?
23. Original Documents Included in CSF?

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐

DATA INSPECTION

4. Form I's present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?
5. Forms 2 through 8 (VOC & SVOC), Forms 2 through 10 (Pesticides), Forms 2 through 14 (Metals & Cyanide) present?
6. Raw data present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?
7. Percent Solids Form present for soil samples?

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐

TE: If items 1, 3, 4, 6, 7, 8, 12, 14, 18, or 22 are missing, corrective action measures must be taken by the CSF auditor and summarized below.

AUDIT NUMBER: 08-15-08

COMMENTS AND NOTES:

Carroll Bump

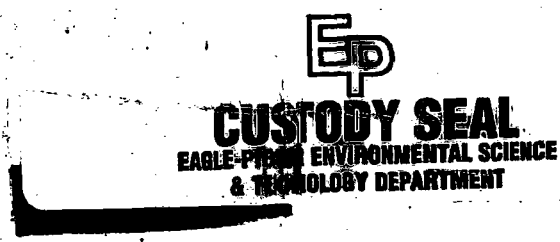
12/11/07

Auditor

Date

EPA OFFICIAL SEALS PAGE

Please attach all custody seals below:



AUDIT NUMBER: 08-15-08

EPA CLP ELECTRONIC DISKETTE(S)

CASE #: 36948 SDG #: BH23K0

SITE NAME: Richardson Flat Tailings

REM: Kathryn Hernandez

DATE: 12/14/07

AUDITOR: Carol Beard

Audit # 08-15-08
RAS # 36948
SP6 - MH23K0
Site - Richardson Flat
Tailings
REM - Kathryn Hernandez
Date - 12/14/07
LAB - A-4

USEPA-CLP

COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057
Lab Code: A4 Case No: 36948 NRAS No.: _____ SDG No: MH23K0
SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
MH23K0	0008709-01
MH23K1	0008709-02
MH23K1D	0008709-02D
MH23K1S	0008709-02S
MH23K2	0008709-03
MH23K3	0008709-04
MH23K4	0008709-05
MH23K5	0008709-06
MH23K6	0008709-07
MH23K7	0008709-08
MH23K8	0008709-09
MH23K9	0008709-10
MH23X6	0008711-01
MH23X7	0008711-02
MH23X8	0008711-03
MH23X9	0008711-04
MH23Y0	0008711-05
MH23Y2	0008711-06
MH23Y3	0008711-07
MH23Y4	0008711-08

Were ICP-AES and ICP-MS interelement corrections applied?

(Yes/No)

ICP-AES

ICP-MS

YES

YES

Were ICP-AES and ICP-MS background corrections applied?

(Yes/No)

YES

YES

If yes, were raw data generated before application of background corrections?

(Yes/No)

NO

NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Reddy Pakanati

Name:

REDDY PAKANATI

Date:

11/27/07

Title:

LABORATORY MANAGER

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USEPA-CLP

COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057
Lab Code: A4 Case No: 36948 NRAS No.: _____ SDG No: MH23K0
SOW No.: ILM05.4

EPA Sample No.

Lab Sample ID

MH23Y50008711-09MH24D50008709-11

Were ICP-AES and ICP-MS interelement corrections applied?

(Yes/No)

ICP-AES

ICP-MS

YESYES

Were ICP-AES and ICP-MS background corrections applied?

(Yes/No)

YESYES

If yes, were raw data generated before application of background corrections?

(Yes/No)

NONO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Reddy Pakanati

Name:

REDDY PAKANATI

Date:

11/27/07

Title:

LABORATORY MANAGER000000002

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW06057

Case #: 36948

SDG #: MH23K0

SDG NARRATIVE

SAMPLE RECIEPT & LOGIN

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

EPA SAMPLE #	LAB SAMPLE #	DATE/TIME RECEIVED	AIRBILL NO.	ANALYSIS	Total # of Containers Received	REMARKS	MATRIX
MH23K0	0008709-01	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23K1	0008709-02	11/9/07 09:43	863198575033	ICP-AES	1	MS/DUP	SOIL
MH23K2	0008709-03	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23K3	0008709-04	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23K4	0008709-05	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23K5	0008709-06	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23K6	0008709-07	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23K7	0008709-08	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23K8	0008709-09	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23K9	0008709-10	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH24D5	0008709-11	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23X6	0008711-01	11/12/07 10:02	863198575033	ICP-AES	1		SOIL
MH23X7	0008711-02	11/12/07 10:02	863198575033	ICP-AES	1		SOIL
MH23X8	0008711-03	11/12/07 10:02	863198575033	ICP-AES	1		SOIL
MH23X9	0008711-04	11/12/07 10:02	863198575033	ICP-AES	1		SOIL
MH23Y0	0008711-05	11/12/07 10:02	863198575033	ICP-AES	1		SOIL
MH23Y2	0008711-06	11/12/07 10:02	863198575033	ICP-AES	1		SOIL
MH23Y3	0008711-07	11/12/07 10:02	863198575033	ICP-AES	1		SOIL
MH23Y4	0008711-08	11/12/07 10:02	863198575033	ICP-AES	1		SOIL
MH23Y5	0008711-09	11/12/07 10:02	863198575033	ICP-AES	1		SOIL

ICP-AES

Issue: Samples for case 36948 were received on 11/9 & 11/12/2007. TR/COC listed tag numbers do not match physical tag numbers.

Resolution: Per Region 8 Lab recorded the physical sample tag number on form DC-1 and proceeded with analysis of samples.

Issue: For samples received on 11/9 & 11/12/2007, there was no temperature blank in the cooler. The cooler temperatures were determined to be 5 and 7 degrees. The following method was used to record cooler temperature. Removed ice between two sample containers and placed thermometers between them and stabilized for several minutes. The thermometer was not allowed to come in contact with any material except sample containers. The temperature of the shipping container was recorded on the TR/COC and form DC-1.

Resolution: Per direction from Region 8, the laboratory, proceed with the analysis of the samples.

Issue: There were no custody seals on any of the coolers.

Resolution: Per Region 8, proceed with the analysis of the samples.

Issue: The lab received 121 samples in 5 coolers. There were 2 samples designated for lab QC in each

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Contract #: EPW06057

Case #: 36948

SDG #: MH23K0

SDG NARRATIVE

cooler. The lab has a total of 6 SDG, and 10 QC samples designated. Lab confirmed if both designated Lab QC's were to be analyzed or if lab was to select only one per SDG.

Resolution: Per Region 8, the laboratory selected one of the designated samples for laboratory QC per SDG and proceeded with analysis of samples.

Lab selected sample MH23K1 and notified SMO.

Issue: The following samples contained less than 50% solid.

MH23K2- 43.3%

Resolution: Per Region 8, the laboratory has proceeded with the analysis of the samples.

SMO was notified. Directive is enclosed. No other discrepancies of issues were noted during receipt and login.

ICP-AES

Soil Samples were digested by Hot-Block technique (HS2) and analyzed using a Thermo Electron ICAP6500.

MS and DUP were performed on sample "MH23K1" and they were within the QC limits.

Analytes with Serial Dilution percent difference not within the control limits are flagged with "E" on Form1s and Form8.

The following Samples were analyzed at a dilution for some elements to bring the concentration below the LDRs. The dilutions were made as below:

Sample ID	Dilution	Volume at digestate (ul)	Volume of 2% HNO3 (ul)	Final Volume (ul)
MH23Y2	1.3	7,692	2,308	10,000
MH23Y5	1.5	6,667	3,333	10,000

The following equations are used for calculation of sample results from raw instrument output data:

ICP-AES

SOIL Samples:

$$\text{Concentration (dry Wt.) (mg/kg)} = \frac{C * V}{W * S} * DF$$

Where,

C = Concentration (mg/L)

V = Final sample volume in Liters (L) (0.1L)

W = Wet sample weight (kg) (0.001kg)

S = % solids/100

DF = Dilution Factor

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Contract #: EPW06057	Case #: 36948	SDG #: MH23K0
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SDG NARRATIVE

SAMPLE LOG-IN SHEET

Lab Name A4 SCIENTIFIC, INC.				Page 1 of 2	
Received By (Print Name) Larry Goodsen				Log-in Date 11-9-07	
Received By (Signature) <i>[Signature]</i>					
Case Number 36948		Sample Delivery Group No. MH23K0		NRAS Number ---	
Remarks:		Corresponding			
		EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #
1. Custody Seal(s) Present/Absent* Intact/Broken		MH23K0		8309990	0008709-01 Intact
2. Custody Seal Nos. N/A		K1		8309984	02
3. Traffic Reports/Chain of Custody Records or Packing Lists Present/Absent* Present		K2		8309977	03
4. Airbill Airbill/Sticker Present/Absent* Present		K3		8309991	04
5. Airbill No. 86398555033		K4		8309975	05
6. Sample Tags Present/Absent* Present		K5		8309968	06
Sample Tag Numbers 11/9/07 Listed/Not Listed on Traffic Report/Chain of Custody Record		K6		8309970	07
7. Sample Condition Intact/Broken*/Leaking		K7		8309974	08
8. Cooler Temperature Indicator Bottle Present/Absent* Present		K8		8309964	-09
9. Cooler Temperature 52		K9		8309976	-010
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree? Yes		MH24D5		83	-11 11/9/07
11. Date Received at Lab 11/9/07					
12. Time Received 9:43					
Sample Transfer					
Fraction MHS	Fraction				
Area # Cooler A	Area #				
By [Signature]	By				
On 11/9/07	On				

* Contact SMO and attach record of resolution

Reviewed By [Signature]	Logbook No. NA
Date 11/9/07	Logbook Page No. 1

SAMPLE LOG-IN SHEET

Lab Name A4 SCIENTIFIC, INC.				Page <u>2</u> of <u>2</u>	
Received By (Print Name) Jessica Schulze				Login Date 11/14/07	
Received By (Signature) <i>Jessica Schulze</i>					
Case Number 36948		Sample Delivery Group No. MH23K0		NRAS Number <u> </u>	
Remarks:		Corresponding			
		EPA Sample #	Aqueous Sample pH	Sample Tag #	Assigned Lab #
1. Custody Seal(s) Present Absent* Intact/Broken		MH2405	NA	8242422	0008709-11
2. Custody Seal Nos. <u>NA</u>					
3. Traffic Reports/Chain of Custody Records or Packing Lists Present Absent*					
4. Airbill Airbill Sticker Present Absent*					
5. Airbill No. 86398575033 <u>NA</u>					
6. Sample Tags Present Absent*					
Sample Tag Numbers Listed Not Listed on Traffic Report/Chain of Custody Record					
7. Sample Condition Intact Broken*/Leaking					
8. Cooler Temperature Indicator Bottle Present Absent*					
9. Cooler Temperature <u>52</u>					
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree? Yes/No*					
11. Date Received at Lab <u>11-9-07</u>					
12. Time Received <u>943</u>					
Sample Transfer					
Fraction MH15	Fraction <u> </u>				
Area # Cooler A	Area # <u> </u>				
By DS	By <u> </u>				
On 11-9-07	On <u> </u>				

* Contact SMO and attach record of resolution

Reviewed By SM	Logbook No. NA
Date 11/09/07	Logbook Page No. 6

SAMPLE LOG-IN SHEET

Lab Name A4 SCIENTIFIC, INC.				Page <u>1</u> of <u>1</u>	
Received By (Print Name) Jessica Schuler				Log-in Date 11/12/07	
Received By (Signature) <i>Jessica Schuler</i>					
Case Number 36948		Sample Delivery Group No. MH 23K0		NRAS Number <u> </u>	

Remarks:	EPA Sample #	Aqueous Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1. Custody Seal(s) <u>Present/Absent*</u> Intact/Broken <u>NA</u>	<u>MH23K6</u>	<u>NA</u>	<u>8311182</u>	<u>008711-01</u>	<u>1-2 p lock bag Intact</u>
2. Custody Seal Nos. <u>NA</u>	<u>X7</u>		<u>8311174</u>	<u>-02</u>	
3. Traffic Reports/Chain of Custody Records or Packing Lists <u>Present/Absent*</u>	<u>X8</u>		<u>8311154</u>	<u>-03</u>	
4. Airbill <u>Airbill/Sticker Present/Absent*</u>	<u>X9</u>		<u>8311151</u>	<u>-04</u>	
5. Airbill No. <u>795506075499</u> <u>NA</u>	<u>X0</u>		<u>8311180</u>	<u>-05</u>	
6. Sample Tags <u>Present/Absent*</u>	<u>X2</u>		<u>8311167</u>	<u>-06</u>	
Sample Tag Numbers <u>Listed/Not Listed on Traffic Report/Chain of Custody Record</u>	<u>X3</u>		<u>8311152</u>	<u>-07</u>	
7. Sample Condition <u>Intact/Broken*/Leaking</u>	<u>X4</u>		<u>8311166</u>	<u>-08</u>	
8. Cooler Temperature Indicator Bottle <u>Present/Absent*</u>	<u>X5</u>		<u>8311175</u>	<u>-09</u>	
9. Cooler Temperature <u>11/12/07 76°</u>					
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree? <u>(Yes)/No*</u>					
11. Date Received at Lab <u>11-12-07</u>					
12. Time Received <u>1002</u>					

Sample Transfer	
Fraction <u>M4/S</u>	Fraction <u> </u>
Area # <u>Cooler A</u>	Area # <u> </u>
By <u>JS</u>	By <u>JS</u>
On <u>11-12-07</u>	On <u>11-12-07</u>

* Contact SMO and attach record of resolution

Reviewed By <u>JS</u>	Logbook No. <u>NA</u>
Date <u>11/12/07</u>	Logbook Page No. <u>6</u>

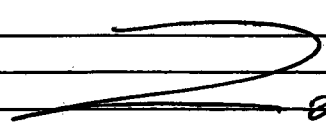
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME	<u>A4 SCIENTIFIC, INC.</u>
CITY/STATE	<u>THE WOODLANDS, TX</u>
CASE NO. <u>36948</u>	SDG NO. <u>MH23K0</u>
SDG NOS. TO FOLLOW	<u>NA</u>
NRAS NO.	<u>NA</u>
CONTRACT NO.	<u>EPWD6057</u>
SOW NO.	<u>ILMD5.4</u>

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOS.		CHECK	
	FROM	TO	LAB	REGION
1. Cover Page	<u>1</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. SDG Narrative	<u>3</u>	<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Sample Log-In Sheet (DC-1)	<u>6</u>	<u>8</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Inventory Sheet (DC-2))	<u>9</u>	<u>10</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5. Traffic Report/Chain of Custody Record(s)	<u>11</u>	<u>14</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inorganic Analysis				
6. Data Sheet (Form I-IN)	<u>15</u>	<u>34</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Initial & Continuing Calibration Verification (Form IIA-IN)	<u>35</u>	<u>37</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8. CRQL Standard (Form IIB-IN)	<u>38</u>	<u>40</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9. Blanks (Form III-IN)	<u>41</u>	<u>42</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10. ICP-AES Interference Check Sample (Form IVA-IN)	<u>43</u>	<u>45</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11. ICP-MS Interference Check Sample (Form IVB-IN)	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Matrix Spike Sample Recovery (Form VA-IN)	<u>46</u>	<u>46</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13. Post-Digestion Spike Sample Recovery (Form VB-IN)	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Duplicates (Form VI-IN)	<u>47</u>	<u>47</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
15. Laboratory Control Sample (Form VII-IN)	<u>48</u>	<u>48</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	<u>49</u>	<u>49</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
17. Method Detection Limits (Annually) (Form IX-IN)	<u>50</u>	<u>52</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	<u>53</u>	<u>53</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	<u>54</u>	<u>54</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	<u>55</u>	<u>55</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21. Preparation Log (Form XII-IN)	<u>56</u>	<u>56</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22. Analysis Run Log (Form XIII-IN)	<u>57</u>	<u>58</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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	PAGE NOS.		CHECK	REGION
	FROM	TO		
23. ICP-MS Tune (Form XIV-IN)	NA	NA	✓	—
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	↓	↓	✓	—
25. ICP-AES Raw Data	59	268	✓	✓
26. GFAA Raw Data (If Applicable)	NA	NA	✓	—
27. ICP-MS Raw Data	↓	↓	✓	—
28. Mercury Raw Data	↓	↓	✓	—
29. Cyanide Raw Data	↓	↓	✓	—
30. Preparation Logs Raw Data	269	288	✓	✓
31. Percent Solids Determination Log	289	290	✓	✓
32. USEPA Shipping/Receiving Documents Airbill (No. of Shipments <u>2</u>)	291	292	✓	✓
Sample Tags	293	299	✓	✓
Sample Log-In Sheet (Lab)	300	301	✓	✓
33. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	NA	NA	✓	—
↓	↓	↓	✓	—
34. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
Custody Logbook	302	303	✓	✓
NA	NA	NA	✓	—
35. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records Digestion Log	269	270	✓	✓
Analysis Records Runlogs	271	274	✓	✓
Description Standard preplog	275	288	✓	✓
36. Other Records (describe or list)				
Telephone Communications Log	NA	NA	✓	—
Emails	304	309	✓	✓
NA	NA	NA	✓	—
37. Comments:				

Completed by: Jessica Schulte Jessica Schulte Sample Custodian 11/29/07
 (CLP Lab) (Signature) (Print Name & Title) (Date)

Audited by: Carl Beamp Carl Beamp 12/11/07
 (USEPA) (Signature) (Print Name & Title) (Date)

11/29/07

**SAMPLE DELIVERY GROUP (SDG)
COVER SHEET**

SDG Number: MH23K0

☒ ICP-AES Analysis

☐ ICP-MS Analysis

Laboratory Name: A4 SCIENTIFIC, INC.

Laboratory Code: A4

Contract No.: EPW06057

Case No.: 36948

Analysis Price: _____

SDG Turnaround: 21 days

Modified Analysis (if applicable):

Modification Reference No.: _____

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) MH23K0	7) MH23K6	13) MH23X8	19) MH23Y5
2) MH23K1	8) MH23K7	14) MH23X9	20) MH24D5
3) MH23K2	9) MH23K8	15) MH23Y0	21)
4) MH23K3	10) MH23K9	16) MH23Y2	22)
5) MH23K4	11) MH23X6	17) MH23Y3	23)
6) MH23K5	12) MH23X7	18) MH23Y4	24)

MH23K0

First Sample in SDG

MH23Y5

Last Sample in SDG

11/09/2007

First Sample Receipt Date

11/12/2007

Last Sample Receipt Date

Note: There are a maximum of 20 **field** samples [excluding Performance Evaluation (PE) Samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).


Signature

11/12/07
Date

0000000011
Inorganic (10/06)

Cooler 1



USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Case No: 36948
DAS No:
SDG No: MH23KO

L

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Chain of Custody Record		Sampler Signature: <i>CL</i>	For Lab Use Only	
	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No: EPW06057
	1 Chris Hayes	11/06/07 8AM	Janna Simonsen	11/06/07	Unit Price: 0
	2 Janna Simonsen	11/8/07 11AM			Transfer To: 2
	3				Lab Contract No: 2
	4		J. Schug	11/9/07 943	Unit Price: 11/9/07

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
X MH23K0	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG20 (1)	UE03-28A1X-0.5	S: 11/6/2007 12:00	0008909	-01 Intact
X MH23K1	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG21 (1)	UE04-28A1X-0.5	S: 10/29/2007 10:20		-02
X MH23K2	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG22 (1)	UE05-28A1X-0.5	S: 10/29/2007 12:00		-03
X MH23K3	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG23 (1)	UE06-28A1X-0.5	S: 10/29/2007 10:40		-04
X MH23K4	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG24 (1)	UE06-29-0.5	S: 10/29/2007 15:15		-05
X MH23K5	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG25 (1)	UE07-CNTY-0.5	S: 10/29/2007 16:34		-06
X MH23K6	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG26 (1)	UE08-28A1X-0.5	S: 10/29/2007 13:55		-07
X MH23K7	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG27 (1)	UE08-28A1X-1.0	S: 10/29/2007 14:05		-08
X MH23K8	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG28 (1)	UE02-29-0.5	S: 10/29/2007 11:00		-09
X MH23K9	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG29 (1)	UE10-28-0.5	S: 10/29/2007 12:00		-10

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MH23H7, MH23K1	Additional Sampler Signature(s): <i>11/9/07</i>	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: <i>11/9/07</i>
Analysis Key: TM = TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? N	Shipment Iced? Y

TR Number: 8-065602925-110607-0001

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PR provides preliminary results. Requests for preliminary results will increase analytical costs.
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Cooler 6



USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Case No: 36948
DAS No:
SDG No: MH23KO

L

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Chain of Custody Record		Sampler Signature: <i>[Signature]</i>	For Lab Use Only Lab Contract No: EPW06057 Unit Price: <i>P</i> Transfer To: <i>[Signature]</i> Lab Contract No: <i>[Signature]</i> Unit Price: <i>[Signature]</i>	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 Chris Hayes	11/6/07 8AM	Janna Simonsen		11/6/07
	2 Janna Simonsen	11/8/07 11AM			
	3				
	4		<i>[Signature]</i> 11/9/07 9/13		

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH24D1	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG181 (1)	UE21-50-1.0	S: 11/2/2007 14:25		
MH24D2	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG182 (1)	UE22-50-0.5	S: 11/2/2007 13:10		
MH24D3	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG183 (1)	UE23-50-0.5	S: 11/2/2007 13:25		
MH24D4	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG184 (1)	UE23-50-1.0	S: 11/2/2007 13:35		
MH24D5	Surface Soil (0"-12")/ April Turney	M/G	TM (21)	TAG185 (1)	UE24-50-0.5	S: 11/2/2007 13:45	0008709	11 Intact

Shipment for Case Complete? <i>N</i>	Sample(s) to be used for laboratory QC: MH24A3, MH24B3	Additional Sampler Signature(s): <i>[Signature]</i> 11/9/07	Cooler Temperature Upon Receipt: <i>52</i>	Chain of Custody Seal Number: <i>[Signature]</i> 11/9/07
Analysis Key: TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <i>N</i>	Shipment Iced? <i>Y</i>

TR Number: 8-065602925-110707-0005

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No:	36948
DAS No:	
SDG No:	MH23KO
L	
For Lab Use Only	
Lab Contract No:	EPW06057
Unit Price:	0
Transfer To:	2
Lab Contract No:	2
Unit Price:	11/12/07

Date Shipped:	Carrier Name: FedEx	Airbill:	Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277
Chain of Custody Record			
Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Chris Hayes	11/6/07 8AM	Janna Simonsen	11/06/07
2 Janna Simonsen	11/8/07 11AM		
3			
4		J. Schaefer	11/12/07 1002

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
X MH23X6	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG126 (1)	UE27-CNTY-0.6	S: 11/1/2007 16:00	0008711-01	Intact
X MH23X7	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG127 (1)	UW03-47-0.5	S: 11/1/2007 9:30	-02	
X MH23X8	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG128 (1)	UW03-47-1.0	S: 11/1/2007 9:45	-03	
X MH23X9	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG129 (1)	UW05-47-0.5	S: 11/1/2007 14:20	-04	
X MH23Y0	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG130 (1)	UW08-47-0.5	S: 11/1/2007 18:50	-05	
X MH23Y1	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG131 (1)	UW09-47-0.5	S: 11/1/2007 12:00	-06	
X MH23Y2	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG132 (1)	UW11-47-0.5	S: 11/1/2007 12:05	-07	
X MH23Y3	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG133 (1)	UW14-47-0.5	S: 11/1/2007 8:30	-08	
X MH23Y4	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG134 (1)	UW16-47-0.5	S: 11/1/2007 11:15	-09	
X MH23Y5	Surface Soil (0"-12")/ Chris Hayes	M/G	TM (21)	TAG135 (1)	UW17-47-0.5	S: 11/1/2007 11:25	-09	find 50

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MH23W6, MH23Y1	Additional Sampler Signature(s): 11/12/07	Cooler Temperature Upon Receipt: 7 40°C 11/12/07	Chain of Custody Seal Number: 11/12/07
Analysis Key: TNE CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? N	Shipment Iced? N

TR Number: 8-065602925-110707-0004

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